

SPM 5.4.2.10353 Release Notes

June – 2014

New Features/Enhancements

- Hub and Node
 - o Requires license keys to be configured as Hub or Node
 - o Hub SPM can manage CDUs from other SPM nodes
 - o For specifics and setup information see Technical Note 303-9999-28 documentation on Hub and Node
- LDAP enhancements
 - o Added support for OpenLDAP/Sun One
- Energy Reports
 - o Added the ability to define custom date ranges for months and years
- Power reports
 - o Added the ability to group by zone to reports that could be grouped by location
- Carbon foot print report
 - o Added CO2 per kWh value -must be setup in the Zone or Location (in the Setup/Thresholds tab)
 - o Report is called Energy Cost – Carbon Foot Print
- Power billing report
 - o Added Cost per kWh – kWh and monetary symbol must be setup in the Zone or Location (in the Setup/Thresholds tab)
 - o Report is called Energy Cost – Energy Cost
- PUE trending added for Zones and Locations
 - o Total Facility Power must be setup in the Zone or Location (in the Setup/Thresholds tab)
 - o Trends are called Zone PUE and Location PUE
- API - Added cabinet devices
 - o See API documentation for specifics on the cabinet devices service in the API
- -48 volt DC product support
 - o Support for 7.0 firmware for DC devices
- Added support for the CW-2H CDU with 7.0x firmware
- Outlet Locking display
 - o Outlets that are locked display the locked status in SPM
- CDU User Login Passwords can now be changed via SNAP
- SPM License screen now displays the number of CDUs used and remaining
- Added all existing competitive device templates to build
- Added description to Alert Lists
- Added location:cabinet:cdu, location:cabinet and object name to the subject line of email alerts
- SPM Setup
 - o Allow custom IP Routes for internal routing tables
 - o Allow the user to choose if the CDU's name is FQDN or IP
 - o Added email disclaimer option
 - o Added the ability to set a SPM login banner and change the SPM login background image
 - o Added the ability to turn off NTP if no server is available

- Added the option to turn off synchronizing temperature (C vs F) and area units (Meters vs Feet) with the CDUs
- Added Failure Tolerance
 - Give the ability for a number of missing polls to a device via SNMP to add up to the indicated number of times before being declared unreachable.
- Performance enhancements
 - New SPM-APPR appliance
 - Network driver support for the SPM-APPR
 - Various database improvements for increased performance
 - Improved memory management

Deprecated

- Not Applicable.

Discontinued or Removed Features

- PIPS Summary report has been removed.

Issues Resolved

CDUs were programmed with the wrong SNAP password from the factory. The incorrect passwords are not allowing SNAP access by SPM.

NICs in specific serial-number ranges that were prepared with v7.0g or v7.0h since April 17th 2013 are affected:

Product	Starting Bad NIC S/N	Ending Bad NIC S/N	Starting Good NIC S/N
Smart CDU	7921500	7924999	7925000
Switched CDU	8300000	8306299	8306300
Smart PDU (OEM)	600000	600699	600700
Switched PDU (OEM)	700000	700099	700100

SPM should correct the SNAP password and allow access.

Bug Fixes

- 2159 IPv6 address hyperlinks to CDU web page don't work
- 2361 Schedule Tasks - Missed "1-time" tasks aren't logged
- 2375 Added device name and device type to SNAP Status page filters
- 2383 Logging is showing "admn" user for "system" actions
- 2384 SNAP status blank on deleted fields
- 2394 Firmware page typo says "delete backup file"
- 2400 SNAP Fail logs need IP Address
- 2416 System Host Name - don't allow spaces
- 2417 Cannot delete CDU login banner through SNAP
- 2429 Database Restore failure doesn't reset setting "database restore" flag in settings
- 2435 Location/Zone> Setup> Location CDU thresholds not setting values on cdus
- 2443 Support pack fails to generate if setup to send by email
- 2455 SNAP - DHCP FQDN Name (30C) fixed
- 2459 Support Tools - Communication Tests - SNMP Walk doesn't work with some special characters
- 2463 Change "{Action}: succeeded" message to be more clear
- 2465 CDU > Setup > Environmental Monitors > EMCU ADC thresholds wrong

- 2469 SNAP - Missing fields from SPM snap templates
- 2473 Cabinet Redundancy report bug: 3-phase A infeed error
- 2476 SNAP of new firmware version should auto-sync
- 2479 Services - when something stops the spm services, they don't get restarted
- 2493 User Groups - allow spaces in the names
- 2496 Backups - some systems backups don't display in the GUI
- 2502 Customer images – support special characters in the name
- 2505 Networking - do not allow the user to set both web ports to the same port
- 2506 Don't allow blank space in Host Name field on SNAP | SMTP screen
- 2512 Changes to Area field from SPM not sent to CDUs
- 2514 Maximum value incorrect on Area field
- 2524 Maximum value on Sequence Interval is incorrect
- 2531 Maximum number of characters in Outlet Group is incorrect
- 2542 apache2.conf - add lines to fix dns resolution issue
- 2545 Support pack - sometimes doesn't get created
- 2552 SNAP - Sync - cdu goes unreachable
- 2561 Warning Thresholds not converted to correct unit type
- 2563 Cannot set Recovery Delta (Humidity) field
- 2575 Remove competitive devices from Circuit setup
- 2595 Power Density Report - column width not large enough for values in the 10,000s
- 2602 Configure Sensor Name - the name isn't changing on the CDU
- 2611 Application Help - Technical Support - Access to support and documentation broken link
- 2615 Hysteresis - Humidity recovery delta should only be available for 7.0j or later
- 2618 Misspelled words in error message - license key error message
- 2623 API- cabinet device - edit/delete outlet
- 2629 Reports - Total Power - Group by Cabinet with Location selected fails
- 2630 Backup mount point - changing from SAMBA to local doesn't clear setting
- 2631 SAMBA mount point causing boot errors
- 2632 Views - outlet power and outlet control only work the first time they are added

Upgrade Path

- Users upgrading to 5.4.2.10353 can upgrade from 5.3.x.xxxx.

SPM 5.3.4.8798 Release Notes

July – 2013

New Features/Enhancements

- API Enhancements
 - o Add cabinet space available
 - o Add competitive device sensors to cdu detail
 - o Add ability to get SPM version

- Avocent AVS device support
 - o ACS “Classic”, ACS500, ACS6000 series devices
 - o Avocent environmental sensors
 - o With PM10i and PM20i PDU support
- Backup files now include date modified
- Branch current monitor for new Server Technology Products
- Custom Device Templates (Software Key Required) P/N SPM-CDT
 - o Added the ability to monitor SNMP enabled devices via user created template
- Device discovery modified to allow entry of one IP address and a number of consecutive addresses
- Device Control Queue – added button with the ability to clear the queue through the web interface
- Email alerts are grouped instead of sending one at a time
- HTTP and HTTPS dual support for SPM user interface
- IPv6 support for CDU – SPM communication
 - o Added the ability to communicate with via IPv6
 - o Note: only communication between the CDU and SPM is supported via IPv6. Communications between syslog, SNMP, email servers, user authentication servers, DNS and NTP servers not supported
- LDAP – added Group Search ability for OpenLDAP & SunOne support to determine User Group membership
- Log Entries
 - o Log the completion of an Upgrade
 - o Unreachable alarms Log – added event end date/timestamp to log entry
- Logging for POPS devices performance improvements
- PDF Trends – improved look
 - o Reduced font size and increased trend area
- Reports
 - o Add competitive device model number to Inventory Report
 - o Add available outlets to U-Space Report
 - o Environmental Report
 - Performance Improvements
 - Sorting – report by sensor name then cdu
- RF Code Sensor integration support (Software Key Required) P/N SPM-RFC
 - o Added the ability to monitor and alert on Temperature, Humidity, Dew Point, Pressure
 - o Added RF sensors to reports/trends
- Send Test Trap Button
 - o Allow the user to generate a test trap from SPM and send to a trap receiver
- Sensor support for competitive devices
 - o Competitive devices being managed by SPM prior to 5.3 will need to be deleted and re-added to add this functionality
- SMTP
 - o SMTP Authentication added (Digest-MD5, CRAM-MD5, Login, Plain, Any)
 - o Troubleshooting messages added
- SNAP
 - o Notify the user of errors in a SNAP template when attempting to save
 - o “Sync” button added
 - Allows the user to synchronize settings between a single CDU and SPM
- SNMPv3 support
 - o Added support for SNMPv3 device communication

- Support Package
 - o Added ability to run from the console command line
- Temperature/Humidity Probes on the link unit
- Ubuntu 10.04
 - o Upgrade to latest(February 2013) release packages of Apache, PHP, SSL

Deprecated

- Not Applicable

Discontinued or Removed Features

- Avocent devices no longer support “Reboot” outlets

Major Issues Resolved

- Not Applicable.

Bug Fixes

- 1926 Icon transparency fixes
- 1937 SNMP – add more logging for sets/failures
- 1965 Device page – outlet control tab should not exist for Smart units
- 2004 Cab Redundancy – competitive devices should say “Not Supported”
- 2007 Change system settings text to make it clear the temperature units is for STI Products
- 2016 Trends – truncate the legend if it becomes too large
- 2045 Email enhancement – notify when alert cleared
- 2049 Cabinet device configuration sometimes showing ID instead of name
- 2050 Cabinet devices – selecting too many outlets sometimes de-selects outlets automatically
- 2056 Cabinet devices – usize still there when position is 0
- 2060 Lists inside configuration windows should be alphabetical
- 2083 Log descriptions display Zone ID instead of name
- 2084 Log descriptions do not display report names
- 2085 Log descriptions do not display location names
- 2093 Broken support link in SPM
- 2094 Backups – backups fail to get created if the folder is missing
- 2097 Regular user should not be able to run discover using the wizard
- 2098 Location sorting initial list should be alphabetical ascending
- 2106 Remove Get/Set community string filters, fields are not searchable (encryption)
- 2107 Cabinet Devices status always “unknown”
- 2109 Task Overview not showing scheduled tasks on some upgraded systems
- 2112 Log messages repeat for outlet actions considered a cluster
- 2116 IP Address double-click not working when SPM unable to determine if port 80 or 443
- 2123 Restore a Backup – change text to include the ability to upgrade
- 2137 Support Package – set the default action to create file in backups directory
- 2155 SNAP Template – Network – Network Mode – should be 1 or 2
- 2160 Schedule Outlet actions on outlet, group, cluster don’t work
- 2165 SNAP settings – Trap User Name should not be required
- 2175 U Space report configuration options not always correct
- 2176 Trends – hide Generate Trend button until trend info is saved
- 2180 SNAP – settings don’t get set
- 2182 Emails – after backup emails for objects are sent with status “power unknown”

- 2194 CDU list – Remove Total Power if it is the same as Power
- 2198 SNAP – SMTP Password Field should not be required
- 2200 SNAP – Select all button to apply settings to a cabinet/location/zone
- 2201 SNAP – Saving Changes fails when daylight savings time not set
- 2202 SNAP – Attempting to set fields that shouldn't be set
- 2208 Sensor alarm text should include sensor name
- 2209 Improved SNAP set commands on large groups of devices
- 2212 Power factor conversion error
- 2235 Total Power Unknown alarms on new objects
- 2237 Location parent loop – reached stack depth limit
- 2239 Cabinet Device – Cabinet drop down order for cabinets should be alphabetical
- 2240 Cabinet Device – always shows as NONE status
- 2242 Cabinet Device power /load trends not displaying
- 2243 Broken reports with Group By – U Space, Cabinet Device Inventory
- 2245 Only allow single select in Predictive tabs of devices
- 2250 Outlet Energy Consumed reports could report negative energy if Avocent devices were reset
- 2251 Backup Files – File sizes don't match actual file sizes
- 2252 Trends – set limit on number of selected items
- 2268 Adding cabinet devices from new cabinet selection should pre-select cabinet
- 2273 Alarm and alarm history filtering not filtering correctly
- 2277 Energy report Duration not working
- 2278 Negative Energy in Report
- 2281 SNAP – Networking Items in the SNAP APPLY tab should say “read only”
- 2283 LDAP – only groups set as administrator work
- 2285 Backups – backup deletes Backups directory in some situations
- 2289 Community strings – longer than 16 characters don't work
- 2295 Adding/deleting regular user groups sometimes errors
- 2304 SPM Scheduled Outlet Action (Daily action not executed)
- 2306 System settings – time zone changes should cause a reboot
- 2320 Resetallmetereddata script taking too long to run causing login/networking failure
- 2323 Remove IP address validation from SNAP fields
- 2337 IP settings SNAP Settings not copying correctly from CDU to Zone, Location, Cabinet
- 2339 SNAP FTP server setting not in Cabinet, Zone, Location
- 2340 SNAP template DHCP settings not copying correctly from one template to another
- 2342 Configuration pop-up windows need to support 1280-800 screen resolution
- 2347 NTP settings were not properly syncing the system time
- 2373 Under certain conditions daily/weekly/monthly scheduled tasks did not execute
- 2379 SNAP – settings DNS 1 & 2 only set DNS1
- 2402 Only apply pending SNAP settings from the object you are applying from
- 2420 Report – General with Subtotals/Input Power – showing ##### for subtotals
- 2431 SNAP – assigning a cdu template to a zone/location/cabinet the IPv4 subnet & gateway aren't copied
- 2440 Updated log message for temperature scale to include the unit C or F for clarity
- 2441 Updated log message for charging the outlet status to include the text on/off/reboot for clarity

Upgrade Path

- Users upgrading to 5.3.4.8798 can upgrade from 5.2.x.xxxx.

SPM 5.2.10.8036 Release Notes

February – 2013

New Features/Enhancements

- Not Applicable.

Deprecated

- Not Applicable

Discontinued or Removed Features

- Not Applicable

Major Issues Resolved

- Not Applicable.

Bug Fixes

- 2182 - After a backup or restarting SPM services, SPM sends an Email Alert for each Cabinet, or Outlet Group with the status “Power Unknown”.

Upgrade Path

- Users upgrading to 5.2.10.836 can upgrade from 5.2.7.xxxx.

SPM 5.2.9.7377 Release Notes

November – 2012

New Features/Enhancements

- Added support for wider range of Trending Heart Beat values on the System settings page. Changed the default Trending Heart Beat value to 864000.

Deprecated

- Not Applicable

Discontinued or Removed Features

- Not Applicable

Major Issues Resolved

- Scheduled outlet actions were not being performed for outlets, groups or clusters.

Bug Fixes

- Not Applicable

Upgrade Path

- Users upgrading to 5.2.9.7377 can upgrade from 5.2.7.xxxx.

SPM 5.2.8.7033 Release Notes

October – 2012

New Features/Enhancements

- Added Avocent (PM2000 & PM3000) support for Energy Consumed Reports.

Deprecated

- Not Applicable

Discontinued or Removed Features

- Not Applicable

Major Issues Resolved

- Not Applicable

Bug Fixes

- Not Applicable

Upgrade Path

- Users upgrading to 5.2.8.7033 can upgrade from 5.2.7.xxxx.

SPM 5.2.7.6893 Release Notes

October – 2012

New Features/Enhancements

- Not Applicable

Deprecated

- Not Applicable

Discontinued or Removed Features

- Not Applicable

Major Issues Resolved

- User Interface “NAG” screen sometimes displayed even though the backend daemon processes were still running
- Temporary files created by a third party tool used to produce trends were not being removed properly

Bug Fixes

- Not Applicable

Upgrade Path

- Users upgrading to 5.2.7.6893 can upgrade from 5.2.6.xxxx, 5.2.5.xxx or 5.1.5.5062 SPM release.

SPM 5.2.6.6778 Release Notes

September – 2012

New Features/Enhancements

- Commands will no longer reside in tables for extended periods of time
 - SNMP & SNAP commands now have a timer and will expire if not executed
- Both failed and successful SNMP & SNAP commands will be logged
- Watchdog will restart backend daemons if they terminate for any reason
- User interface will notify the user via a “NAG” screen if the backend daemons are not running
 - System will be locked on the “NAG” screen until the daemons are restarted

Deprecated

- Not Applicable

Discontinued or Removed Features

- Not Applicable

Major Issues Resolved

- Not Applicable

Bug Fixes

- 2075 - Inventory reports not reporting hierarchal locations
- 2087 - Outlet Cluster - not showing total power/current with competitive devices
- 2088 - Reports – Outlet reports missing competitive device outlets
- 2089 - Trends – Outlet Cluster missing competitive device outlets
- 2090 - Cabinet Device with competitive device outlet not showing power/current
- 2091 - Trends – Cabinet Device total power/current missing for competitive devices
- 2099 - Backups – more than 5 backups are being kept
- 2114 - Existing trends could not be edited or show data after upgrade

Upgrade Path

- Users upgrading to 5.2.6.6778 can upgrade from 5.2.5.6549 or 5.1.5.5062 SPM release.

SPM 5.2.5.6549

August - 2012

New Features/Enhancements

- Competitive Devices Enhancements (device dependent)
 - Outlet control added for supported templates
 - Infeed name and threshold updating to device
 - Outlet name and threshold updating to device
 - Outlets can now be added to outlet groups\clusters
 - Outlets can be assigned security options
- Added Cabinet Devices feature
 - Cabinet Devices allow the user to create devices to represent equipment in the Cabinet and track the outlets used by that equipment
 - Cabinet Devices can be viewed from the Cabinet or via the Device Selection menu
 - Cabinet Devices can be found using the top search bar
- Added Cabinet Redundancy feature
 - Cabinet Redundancy allows the user the ability to see if the power provided to the cabinet will keep devices powered if either the A or B power source is lost
 - Added ability to designate CDUs Power Source as A or B when added to a Cabinet
 - Added Bar Graph to Cabinet Summary tab to visually represent Power Redundancy for that Cabinet
 - Added Redundant Status to Cabinet Summary tab and Cabinet lists
 - Added new reports (see Reports section of release notes)
- Trending enhancements/features
 - Readability improved
 - Trends now show min/max/avg for each line and period
 - added period to trend
 - Supported trends allow for overlapping a second trend type
 - Support for period overlapping with other periods
 - Support for predictive analysis based on time periods in the past and future
 - Predictive analysis can generate alarms based on future trends
- Added SNMPv3 support for both STI and competitive devices
 - Device discovery supports SNMPv3 for STI products
 - Manual addition of STI and competitive devices supports SNMPv3
- Added the ability to configure a remote mount point for backups via SAMBA
- Added the ability to manage backup and firmware files directly from the web interface
 - Firmware File manager allows the user to upload, download or delete files in the firmware folder of SPM using the web interface
 - Backup Files manager allows the user to download or delete backups on the SPM using the web interface
 - Restore a Backup allows the user to upload a backup to the SPM via the web interface
- Support Tools enhanced
 - Support Package allow the user to run or schedule an information package that will be emailed to STI support to help diagnose problems
 - Communication Tests allow the user to Ping or SNMP Walk a device using SNMPv1,2 or 3

- System Info provides SPM server system information on a page view
 - Hostname & IP address
 - Disk Space used & free
 - Memory used & free
 - Last backup date
 - Serial Number
 - Hardware Internal Sensor status – (does not apply to virtual servers)
- Capability to restart services or reboot server on System Info tab
- Added 2nd trap destination field in System Setup
- Added STI CDU configuration options (GUI and API)
 - Added outlet Wake Up State and Post On Delay
 - Added CDU Sequence Interval and Reboot Delay
 - Added CDU area
- SNAP
 - Added the ability to modify SNAP template and send SNAP template to CDU using the API
 - Added the ability to send SNAP line item control at Cabinet, Zone and Location level
 - NOTE: this can circumvent internal checks and should be used with caution
 - See “Selected Update of SNAP Template Settings” in the online help for more information
- Enhanced the readability of log entries to make them more user friendly
- Console command line enhancements
 - Ldap – allows enable | disable of LDAP
 - Email – allows enable | disable of email
 - Whoami – displays the version, serial, and current user
 - Diskinfo – displays disk usage
 - Processinfo – displays current processes
 - Ping – initiates a communication test
 - Walk – initiates a SNMP walk
 - Backup – initiates a backup
 - License – displays license info
- Improved SNMP polling performance to only query needed data
- List View improvements
 - Added Predictive list tab for quick analysis of prediction data
 - Added Predictive option to Configure Threshold lists
- Reports
 - Enhanced Outlet Energy report location data now summed (locations include sub-location totals)
 - Added Cabinet U space report
 - Added Cabinet Redundancy report
 - Added Cabinet Device Inventory report
 - Added Cabinet Device Power report

Deprecated

- Not Applicable

Discontinued or Removed Features

- Not Applicable

Major Issues Resolved

- Not Applicable

Bug Fixes

- 1111/1165 - Added descriptions for log entries on scheduling actions
- 1263 - API - cdu dataLog - support location/cabinet/outlet group/outlet cluster power & load parameters
- 1274 - Display Active Tasks icon for backups
- 1603 - Added Telnet command line help
- 1628 - API: changed items in cabinet, location, cdu with incorrect data types
- 1653 - Add hostname to the backup file name to uniquely identify it
- 1677 - Fixed – Views - double clicking the "Configure" icon locks interface
- 1784 - Discovery/Adding devices no longer requires SET community string
- 1785 - Add ability to set CDU thresholds to CDUs within a zone
- 1848 - Updated - API - Manual missing settings fields
- 1856 - Fixed - SNAP - Unlocked CDU showing wrong text on button
- 1860 - Fixed - New Builds - SMTP enabled by default
- 1870 - Fixed - Edit/Create dialogs - export to XLS raw data does nothing
- 1890 - Getting Started Help View gets stretched on wide screen monitors
- 1952 - Fixed - Filtered Search Bar - Mouse over help disappears too quickly
- 1953 - Fixed - New User Report - No Help Menu Option

Upgrade Path

- Users upgrading to 5.2.5.6549 must be on the 5.1.5.5062 SPM release.